

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>151157-5 DK</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No. <b>PCT/IL2004/000502</b>	International filing date (day/month/year) <b>10/06/2004</b>	(Earliest) Priority Date (day/month/year) <b>10/06/2003</b>
Applicant <b>YISSUM RESEARCH DEVELOPMENT COMPANY OF THE ...</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 3B

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G01N33/543 G01N27/414 G01N33/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal, INSPEC, BIOSIS, EMBASE, WPI Data, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 07, 29 September 2000 (2000-09-29) & JP 2000 097899 A (NTT ADVANCED TECHNOLOGY CORP; NIPPON TELEGR & AMP; TELEPH CORP & LT; NTT), 7 April 2000 (2000-04-07) abstract	1
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 23, 10 February 2001 (2001-02-10) & JP 2001 156398 A (CANON INC), 8 June 2001 (2001-06-08) abstract	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

12 October 2004

Date of mailing of the international search report

03/11/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MA X L ET AL: "Microstructural characterization of Si cones fabricated by Ar<+>-sputtering Si/Mo targets" JOURNAL OF CRYSTAL GROWTH, NORTH-HOLLAND PUBLISHING, AMSTERDAM, NL, vol. 234, no. 4, February 2002 (2002-02), pages 654-659, XP004313082 ISSN: 0022-0248 the whole document	1
P,X	WO 03/104789 A (UNIV NEW JERSEY MED ; UNIV RUTGERS (US)) 18 December 2003 (2003-12-18) paragraphs '0057!,'0059!; claim 9; figure 2	1
A	FROMHERZ PETER: "Electrical interfacing of nerve cells and semiconductor chips." CHEMPHYSICHEM: A EUROPEAN JOURNAL OF CHEMICAL PHYSICS AND PHYSICAL CHEMISTRY, vol. 3, no. 3, 12 March 2002 (2002-03-12), pages 276-284, XP002300227 ISSN: 1439-4235 cited in the application the whole document	1-43
A	FROMHERZ P: "Semiconductor chips with ion channels, nerve cells and brain" PHYSICA E ELSEVIER NETHERLANDS, vol. 16, no. 1, January 2003 (2003-01), pages 24-34, XP002300226 ISSN: 1386-9477 abstract	1-43
A	WO 01/25769 A (SOPHION BIOSCIENCE AS) 12 April 2001 (2001-04-12) abstract; figures 3B-3D	1-43

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2000097899	A	07-04-2000	JP 3515908 B2	05-04-2004
JP 2001156398	A	08-06-2001	CN 1274974 A	29-11-2000
			US 6656759 B1	02-12-2003
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			CA 2385482 A1	12-04-2001
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			EP 1221046 A2	10-07-2002
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